SEQUENCE LISTING

<110> HASHIMOTO, Koji
ASHIMOTO, Michie
MISHIRO, Shunji
OOTA, Yasuhiko

<120> DETECTION OF NUCLEIC ACID ASSOCIATED WITH DISEASE

<130> 220633US2SRDPCT

<140> US 10/070,415
<141> 2002-03-15

<150> PCT/JP02/02030
<151> 2002-03-05

<150> JP 2001-090053
<151> 2001-03-27

<150> JP 2001-284112
<151> 2001-09-18

<160> 72

<170> PatentIn version 3.1

<210> 1
<211> 21
<212> DNA
<213> Hepatitis C virus

<400> 1
ccctgtgagg aactwctgtc t 21

<210> 2
<211> 21
<212> DNA
<213> Hepatitis C virus

<400> 2
ggtgcacggt ctacgagacc t 21

<210> 3
<211> 26
<212> DNA
<213> Hepatitis C virus

<400> 3
tctagccatg gcgttagtry gagtgt 26

<210> 4
<211> 26
<212> DNA

<213> Hepatitis C virus

<400> 4
cactcgcaag caccctatca ggcagt 26

<210> 5
<211> 18
<212> DNA
<213> Hepatitis C virus

<400> 5
cgctcaatgc ctggagat 18

<210> 6
<211> 18
<212> DNA
<213> Hepatitis C virus

<400> 6
cactctatgc ccggccat 18

<210> 7
<211> 18
<212> DNA
<213> Hepatitis C virus

<400> 7
cgctcaatac ccagaaat 18

<210> 8
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 8
cgcgcgacta ggaagacttc 20

<210> 9
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 9
cgcgcgacgc gcaaaacttc 20

<210> 10
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 10

tgccttgggg ataggctgac 20

<210> 11
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 11
gagccatcct gcccacccca 20

<210> 12
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 12
gccccatgaa gggcgagaac 20

<210> 13
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 13
accctcgttt ccgtacagag 20

<210> 14
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 14
gctgagccca ggaccggtct 20

<210> 15
<211> 20
<212> DNA
<213> Hepatitis C virus

<400> 15
aggaagactt ccgagcggtc 20

<210> 16
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is one nucleotide selected from a, g, c, or t

<400> 16
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgn 420

aggtgcgggg ccaggagcta ggtttcgttt ctgctcccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 17
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is any nucleotide selected from a, g, c, or t

<400> 17
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgn 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcgcccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 18
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is any nucleotide selected from a, g, c, or t

<400> 18
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgn 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcacccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 19
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (420)..(420)
<223> n is any nucleotide selected from a, g, c, or t

<400> 19
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgn 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcccccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 20
<211> 22
<212> DNA
<213> Homo sapiens

<400> 20
aggtgcgggg ccaggagcta gg 22

<210> 21
<211> 22
<212> DNA
<213> Homo sapiens

<400> 21
ggcctccgct ctcgcttcgc ct 22

<210> 22
<211> 19
<212> DNA
<213> Homo sapiens

<400> 22
tcgtttctgc tcccggagc 19

<210> 23
<211> 19
<212> DNA
<213> Homo sapiens

<400> 23
tcgtttctgc gcccggagc 19

<210> 24
<211> 19
<212> DNA
<213> Homo sapiens

<400> 24
tcgtttctgc ccccggagc 19

<210> 25
<211> 19
<212> DNA

<213> Homo sapiens

<400> 25
tcgtttctgc acccggagc 19

<210> 26
<211> 20
<212> DNA
<213> Homo sapiens

<400> 26
cttgtctcgt agctgcagcc 20

<210> 27
<211> 15
<212> DNA
<213> Homo sapiens

<400> 27
gtttctgctc ccgga 15

<210> 28
<211> 15
<212> DNA
<213> Homo sapiens

<400> 28
gtttctgcgc ccgga 15

<210> 29
<211> 15
<212> DNA
<213> Homo sapiens

<400> 29
gtttctgccc ccgga 15

<210> 30
<211> 36
<212> DNA
<213> Homo sapiens

<400> 30
gtttctgcac ccggaccctg tgaggaactw ctgtct 36

<210> 31
<211> 15
<212> DNA
<213> Homo sapiens

<400> 31

tgctgtcgat cgcac 15

<210> 32
<211> 15
<212> DNA
<213> Hepatitis C virus

<400> 32
cttggggata ggctg 15

<210> 33
<211> 15
<212> DNA
<213> Hepatitis C virus

<400> 33
ccatcctgcc caccc 15

<210> 34
<211> 15
<212> DNA
<213> Hepatitis C virus

<400> 34
ccatgaaggg cgaga 15

<210> 35
<211> 15
<212> DNA
<213> Hepatitis C virus

<400> 35
ctcgtttccg tacag 15

<210> 36
<211> 15
<212> DNA
<213> Hepatitis C virus

<400> 36
gagcccagga ccggt 15

<210> 37
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (455)..(455)
<223> n is one nucleotide selected from a, g, c, or t

<400> 37
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgt 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcncccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 38
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (455)..(455)
<223> n is one nucleotide selected from a, g, c, or t

<400> 38
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgg 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcncccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 39
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (455)..(455)
<223> n is a nucleotide selected from a, g, c, or t

<400> 39
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctga 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcncccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 40
<211> 581
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (455)..(455)
<223> n is a nucleotide selected from a, g, c, or t

<400> 40
atgagccaga ctccagggag gcctagaagt gggcaagggg aaacgggaaa ggaggaagat 60

ggtatgggtg tgcctggtta ggggtgggag tgctggacgg agttcgggac aagaggggct 120

ctgcagccat tggcacacaa tgcctgggag tccctgctgg tgctgggatc atcccagtga 180

gccctgggag ggaactgaag acccccaatt accaatgcat ctgttttcaa aaccgacggg 240

gggaaggaca tgcctaggtt caaggatacg tgcaggcttg gatgactccg ggccattagg 300

gagcctccgg agcaccttga tcctcagacg ggcctgatga aacgagcatc tgattcagca 360

ggcctgggtt cgggcccgag aacctgcgtc tcccgcgagt tcccgcgagg caagtgctgc 420

aggtgcgggg ccaggagcta ggtttcgttt ctgcncccgg agccgccctc agcacagggt 480

ctgtgagttt catttcttcg ccggcgcggg gcggggctgg gcgcggggtg aaagaggcga 540

accgagagcg gaggccgcac tccagcactg cgcagggacc g 581

<210> 41
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 41
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacggaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 42
<211> 1802
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 42

gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccaccgaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 43
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 43
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacagaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 44
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 44

gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccactgaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 45
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<400> 45
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

ccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatggcacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 46
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 46
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgacacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 47
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>

<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 47
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgccacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctctgagct gacttcaccc agggttctga gaccttgagt atctggtaag aggtgcccct 1740

tctcctgttc cttcaaagga agatacccaa atttgctttc tgacccagtg ccctcagccc 1800

tc 1802

<210> 48
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 48
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgtcacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 49
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<400> 49
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggcgt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 50
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>

<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<400> 50
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggtgt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 51
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 51
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggagt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 52
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 52
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggggt gatgncacca aggnagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 53
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<400> 53
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca agggagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 54
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<400> 54
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggaagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 55
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>

<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (884)..(884)
<223> n is a nucleotide selected from a, g, c, or t

<400> 55
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggtagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 56
<211> 1802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (649)..(649)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (425)..(425)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (868)..(868)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (875)..(875)
<223> n is a nucleotide selected from a, g, c, or t

<400> 56
gaattcctgc cagaaagtag agaggtattt agcactctgc cagggccaac gtagtaagaa 60

atttccagag aaaatgctta cccaggcaag cctgtntaaa acaccaaggg gaagcaaact 120

ccagttaatt ctgggctggg ttggtgacta aggttgaggt tgatctgagg ttgagacctt 180

cctctttgga tcaccagctt tcagctcagg gcctgccaat gagtaaatga tagttaacag 240

gtcctggagg ggaatcagct gcccagatac aaagatggga ttcaggtggc agatggaccc 300

gaagaggaca tggagagaaa gaggaagctc ctacagacac ctgggtttcc actcattctc 360

attccctaag ctaacaggca taagccagct ggcaatgcac ggtcccattt gttctcactg 420

ccacngaaag catgtttata gtcttccagc agcaacgcca ggtgtctagg cacagatgaa 480

cccctcctta ggatccccac tgctcatcat agtgcctacc tttgttaaag tactagtcac 540

gcagtgtcac aaggaatgtt tacttttcca aatccccagc tagaggccag ggatgggtca 600

tctatttcta tatagcctgc acccagattg taggacagag ggcatgctng gtaaatatgt 660

gttcattaac tgagattaac cttccctgag ttttctcaca ccaaggtgag gaccatgtcc 720

ctgtttccat cactccctct ccttctcctg agtatggtgg cagcgtctta ctcagaaact 780

gtgacctgtg aggatgccca aaagacctgc cctgcagtga ttgcctgtag ctctccaggc 840

atcaacggct tcccaggcaa agatgggngt gatgncacca aggcagaaaa gggggaacca 900

ggtacgtgtt gggctgttct gtctctgcaa ttctttacct tccagaggaa actgcctggg 960

gatatgagga gactgatgtc ctatttgagt atatttttct caactatact gtaactcaaa 1020

acagagattc agctcgaatt ccacacagca gtttgtgact aatagttgtc ttgccagccc 1080

aggaaagtgg cccacaggtc aggccatccc gtgggacaca ggatgaattt ttcttctctg 1140

ggtcattgtc atgtcagacc cctattcact tcagtaggga tggcaccagg ttcaagaggc 1200

caaagaagag atggagtcag caaacaaaca taggttttac tgggggaatc tgtttacagg 1260

gagatccagc agcagtgggc tggacaggag aacaacaact actggtaaaa acaaatgcag 1320

ttaattttca ctttgcaccc tccctgcagc aacctccacg tggcaacttt atttcttaag 1380

ttattgctct caggtgcaca ccatacagtt attgagagca gtgctcagaa aggtcagtcc 1440

tgggtcaagg tctcccttct cctgagaagg gattgggcat caaactcttg aagagagaga 1500

gcaagaacat agatattaag tcacatttcc tttgtcttcc aacaggccaa gggctcagag 1560

gcttacaggg ccccccctgga aagttggggc ctccaggaaa tccagggcct tctgggtcac 1620

caggaccaaa gggccaaaaa ggagaccctg gaaaaagtcc gggtaaggac cccagcaagg 1680

tctgagctga cttcacccag ggttctgaga ccttgagtat ctggtaagag gtgccccttc 1740

tcctgttcct tcaaaggaag atacccaaat ttgctttctg acccagtgcc ctcagccctc 1800

tc 1802

<210> 57
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 57
ngtgatggca ccaaggna 18

<210> 58
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 58
ngtgatgaca ccaaggna 18

<210> 59
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>

<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 59
ngtgatgtca ccaaggna 18

<210> 60
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 60
ngtgatgcca ccaaggna 18

<210> 61
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 61
ggtgatgnca ccaaggna 18

<210> 62
<211> 18
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 62
agtgatgnca ccaaggna 18

<210> 63
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 63
tgtgatgnca ccaaggna 18

<210> 64
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a nucleotide selected from a, g, c, or t

<400> 64
cgtgatgnca ccaaggna 18

<210> 65
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<400> 65
ngtgatgnca ccaaggga 18

<210> 66
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<400> 66
ngtgatgnca ccaaggaa 18

<210> 67
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<400> 67
ngtgatgnca ccaaggta 18

<210> 68
<211> 18
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a nucleotide selected from a, g, c, or t

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a nucleotide selected from a, g, c, or t

<400> 68
ngtgatgnca ccaaggca 18

<210> 69
<211> 30
<212> DNA
<213> Homo sapiens

<400> 69
acacacccgt ttccaccctg gagaggccag 30

<210> 70
<211> 30
<212> DNA
<213> Homo sapiens

<400> 70
tgcgcagtgc tggagtgcgg cctccgctct 30

<210> 71
<211> 19
<212> DNA
<213> Homo sapiens

<400> 71
cctgtgagga actactgtc 19

<210> 72
<211> 20
<212> DNA

<213> Homo sapiens

<400> 72
ggtgcacggt ctacgagacc 20